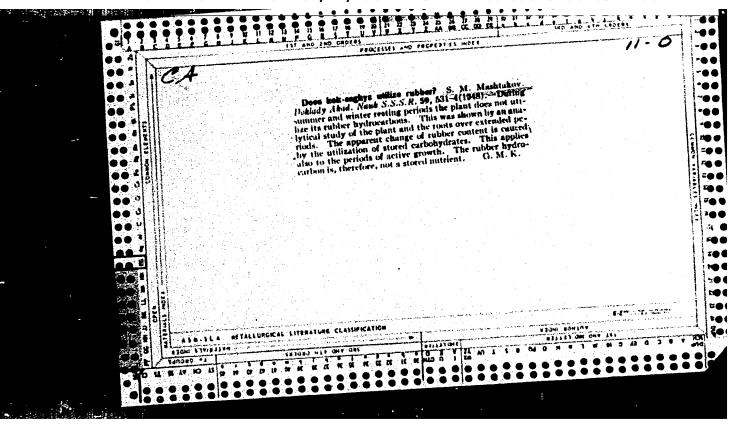
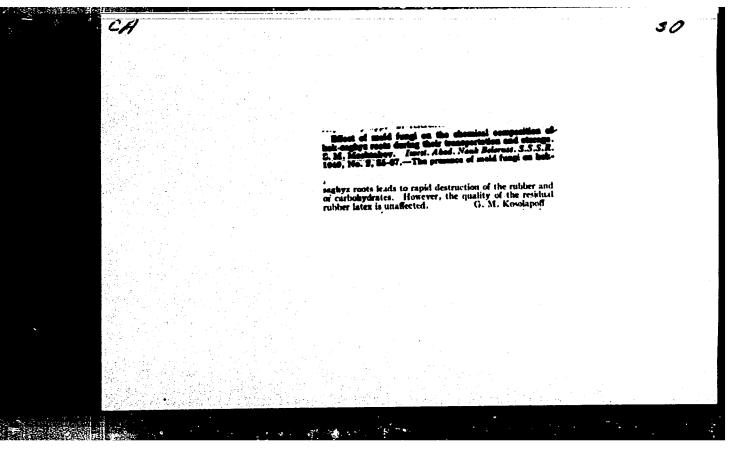


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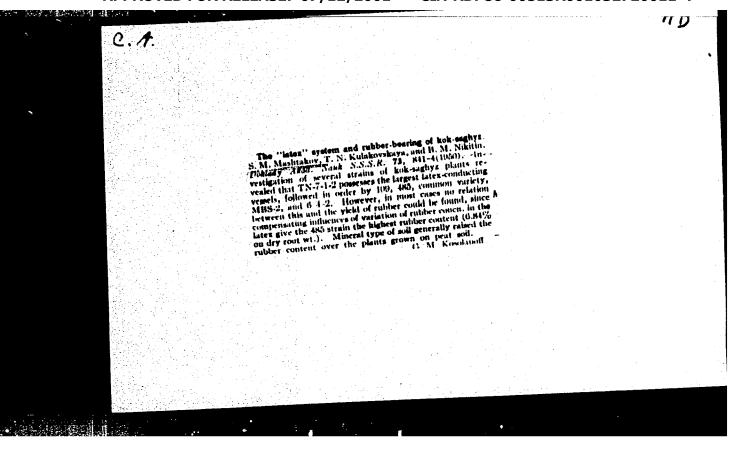


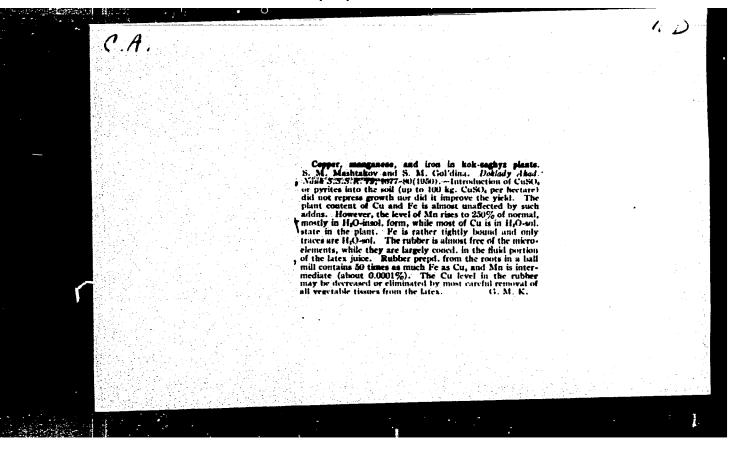


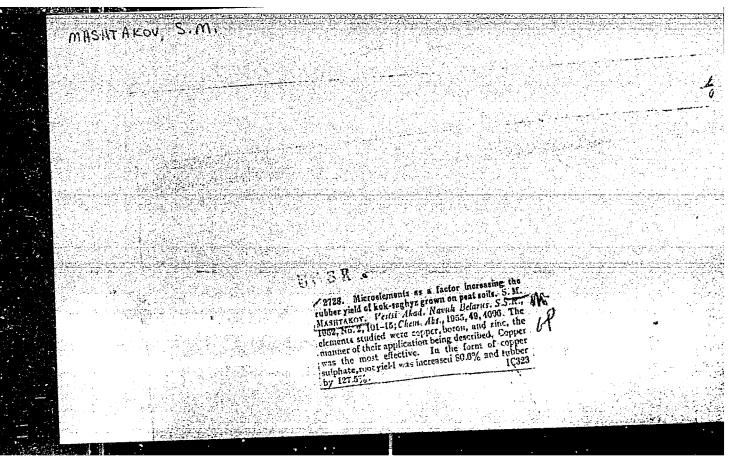
MASHTAROV, S. M.

22566. MASHTAKOV, S. M. Vliyaniye solnechnoi i tenevoi sushki kornei kok-sagyza na kachestvo uglevodoroda. izvestiya akad. nauk bssr, 1949, No 3, S. 117-28.-Bibliogr:: 23 Nazv.

SO: LETOPIS' No. 30, 1949







MASHTAKOV, S.M.

MASHTAKOV, S.M.; GOL'DINA, S.M.; PROKUDINA, R.I.

Use of 2,4-dichlerephenexyacetic acid for increasing the strength of cereal stems. Dokl. AN SSSR 96 no.4:845-848 Je '54. (MIRA 7:6)

1. Institut melieratsii, vodnego i belotnogo khesyaystva Akademii neuk SSSR.
(Oats) (Peat begs) (Dichlerphenoxyacetic acid)

MASHTAKOV, S.M.

USSR/Agriculture - Melioration

Card 1/1 : Pub. 22 - 37/44

Authors : Mashtakov, S. M.; Kulakovskaya, T. N.; and Gol'dina, S. M.

Title : Activity of ferments and breathing intensity as indicators of biological activity of the soil

Periodical : Dok. AN SSSR 98/1, 141-144, Sep 1, 1954

Abstract: Report is made on the biological activity of the soil as determined by the breathing intensity of the latter and the activity of ferments applied to the soil. Tables, showing the number of micro-organisms, ferment activity and breathing intensity of peat and mineral soils, are included. Eight USSR references (1937-1953).

Institution : Acad. of Sc. Byeloruss-SSR, Institute of Melioration

Presented by : Academician A. L. Kursonov, June 4, 1954

MASHTAKOV S. M.

"The Accumulation of Rubber in Kok-Saghyz in Relation to Its Biological Characteristics and Conditions of Growth." Dr Biol Sci. Inst of Botany imeni V. L. Komarov, Acad Sci USSR, Leningrad, 1955. (KL, No 12, Mar 55)

S0: Sum. No. 670, 29 Sep 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

MASHTAKOV, S.M.

USSR/Biology - Plant physiology

Card 1/1 Pub. 22 - 45/45

Authors Mashtakov, S. M.; Kulakovskaya, T. N.; and Gol'dina, S. M.

Title . About rubber bearing properties of wild growing Kok-Saghiz plants

Periodical : Dok. AN SSSR 103/2, 341-344, Jul 11, 1955

Abstract : Scientific data are presented on the rubber bearing properties of wild growing Kok-Saghiz plants. Four USSR references (1936-1951). Tables.

Institution :

Presented : Academicia A. L. Kursanov, May 20, 1955

Mashtakov, S. M.

USSR/Biology - Plant Physiology

Card 1/1

Mashtakov, S. M., Gol'dine, S. M., and Prokudina, R. I. Authors

Increase in the strength of cereal grain stalks by the use Title

of 2, 4-dichlorophenoxyacetic acid

Dokl. AN SSR, 96, Ed. 4, 846 - 848, June 1954 Periodical

Experiments with cats showed, that spraying of plants, dur-Abstract ing complete growth of the sprouts, with w, 4-DU (Dichlo-rophenoxyacetic acid) in 2 kg dosages per hectare of land,

leads to a reduction in grain yield. Nine references. Table.

Acad. of Sc. Byeloruss-SSR, Inst. of Melioration Water and Institution:

Swamp Control

Presented by: Academician A. L. Kursanov, April 1, 1954

MASHTAKOV, Sergey Mikhaylovich

(Inst of Soil Improvement and Mersh Economy Acad Sci BSSR)
Academic degree of Doctor of Biological Sciences, based on
his defense, 27 April 1955, in the Council of the Botanical
Inst imeni Komarov Acad Sci USSR, of his dissertation entitled: "The accumulation of caoutchouc in the plants of
kok-saghyz in connection with its biological peculiarities
and conditions of growth."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 21, 22 Oct 55, Byulleten' MVO SSSR, No. 19, Oct 56, Moscow, pp. 13-24, Uncl. JPRS/FF-536

USSR/Cultivated Plants - Fodders.

М

Abs Jour

: Ref Zhur Biol., No 12, 1958, 53671

Author

: Mashtakov, S.M., Gol'dina, S.M.

Inst

: AS Belorussian SSR

Title

: The Effect of Azototobacterin and Molybdenum on the Uptake of Nutrients and on the Accumulation of Dry

Matter in Corn Grown on Peat-Bog Soil

Orig Pub

: Kukuruza v BSSR. Minsk, AN BSSR, 1957, 204-225

Abstract

: Experiments conducted in 1955 at the Minsk Bog Experimental Station on peat-bog soil showed that treatment of the corn seeds (Moldavskaya Ryadovaya) with azotobacterin increased the weight of a single plant from 136.61 g (control) to 166.45 g, and the 24-hour increment of the dry substance was increased from 1.77 to 2.53 g per single plant; the leaf surface area was increased from 3220 to

Card 1/2

- 66 -

USSR/Cultivated Plants - Fodders.

M

Abs Jour : Ref Zhur Biol., N 12, 1958, 53671

5164 cm² and the yield of the grain was increased by 16%. In the vegetation experiments, azotobacterin increased the crop of sprouts 1.8 times and on the ground with Mo - 2.6 times. The N, P and K contents in the corn plants were considerably increased under the effect of azotobacterin. One Mo in the dose of 10 mg per 1 kg of dry soil promoted the uptake of N and of other nutritional elements by the plants. It increased the weight of a single plant from 227.1 to 428 g and the weight of the sprout without coating from 22.6 to 74.9 g. Bacteriolysation of the corn promoted the adaptation of azotobacter cells in the rhizosphere of the corn and intensifified the development of ammoniphicates, of actinomycetes, of penicillium, and of other groups of microorganisms. -- V.V. Koperzhinskiy

Card 2/2

MASHTAKOV S.W., prof., doktor biolog.nauk, otv.red.; GODNEV, T.N., akademik, red.; TERENT'YEV, V.M., kand.biolog.nauk, red.; SHLYK, A.A., kand. khimicheskikh nauk, red.; BULAT, O., red.izd-va; TIKHAEOVICH, K., tekhred.

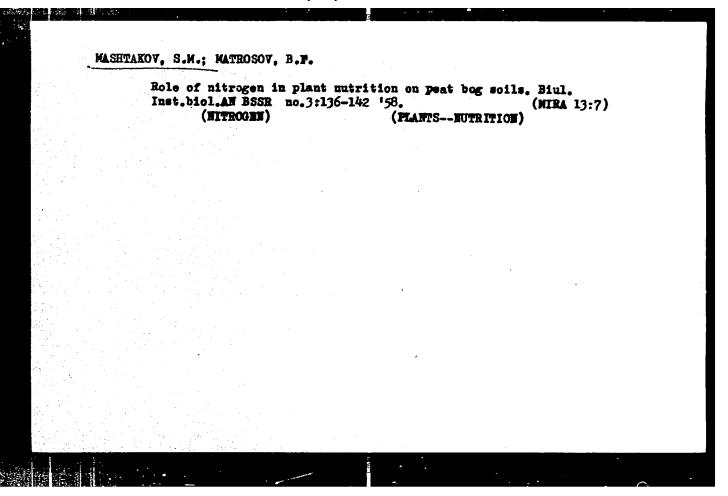
[Biochemistry and physiology of plants; collection of scientific works] Biokhimia i fiziologiia rastenii; sbornik nauchnykh rabot. Minsk, Isd-vo Akad. nauk BSSR, 1958. 295 p. (MIRA 12:1)

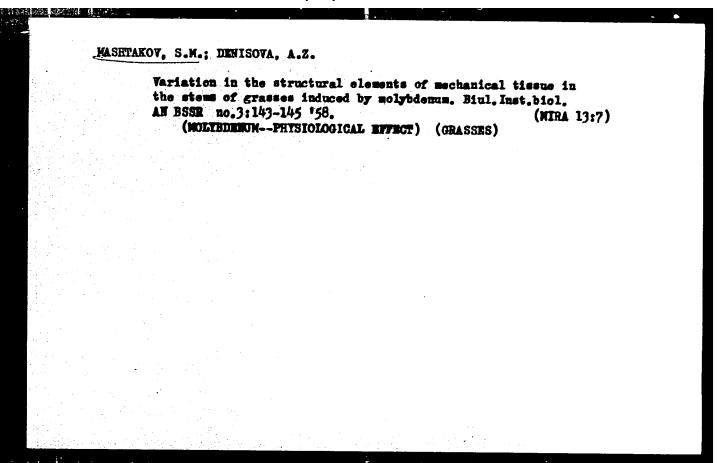
1. Akademiya nauk Belorusskoy SSR, Minsk. Institut biologii.

2. AN Belorusskoy SSR (for Godney).

(Biochemiatry)

(Botany--Physiology)





MASHTAKOV, S.H. [Mashtakou, S.M.], doktor biol.nauk, prof.

Modern practices in chemical weed control and urgent problems in scientific research on herbicides in White Russia. Vestsi AH BSSR. Ser. biial. nav. no.3:62-71 159. (MIRA 12:12) (White Russia--Herbicides)

MASHTAKOV, S.M.; LEDOVSKIY, S.Ya.; VOLKOVA, L.I.

Experiments in studying the physiological action of derivatives of 3-amino-1.2.4-triazole. Dokl.AN BSSR 3 no.10:422-425 0 159. (MIRA 13:2)

1. Predstavleno akademikom AN BSSR I.D. Turkevichem. (Triazole--Physiological effect)

17(1)

AUTHORS: Mas

Mashtakov, S. M., Gol'dina, S. M.,

SOV/20-124-1-66/69

Matrosov, B. F.

TITLE:

The Effect of Molybdenum Upon the Supply of Mineral Nutrition Elements to the Plants and Upon the Development of Microflora Under Conditions of Peat Bog Soils (Vliyaniye molibdena na postupleniye v rasteniya elementov mineral'nogo pitaniya i razvitiya mikroflory v usloviyakh torfyano-bolotnykh pochv)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 231-233

(USSR)

ABSTRACT:

The favorable influence of tracer elements upon the breeding of plants in peat bog soils has already several times been emphasized (Refs 1-4). In spite of the well-known important role of molybdenum in the life of higher plants (Refs 6-14) this effect has been little investigated. It was the aim of the authors to observe the changes of soil microflora in the case of a molybdenum introduction into peat soils. In this connection they wanted to determine the amount of NPK-elements accumulated in the plants (mineral nutrition nitrogen, phesphorus, potassium). Barley (Hordeum nudum = yachmen' golozernyy) and maize of the type Moldavskaya ryadovaya were

Card 1/3

The Effect of Molybdenum Upon the Supply of Mineral SOV/20-124-1-66/69 Nutrition Elements to the Plants and Upon the Development of Microflora Under Conditions of Peat Bog Soils

used for the experiments. The peat soil had pH 4.78. It was fertilized with potassium phosphide. In addition to that the soil was sprayed with aqueous ammonium molybdate solution (5 and 10 mg per 1 kg absolutely dry soil). Tables 1, 2 show that molybdenum promotes the absorption of NPK-elements and the protein synthesis. This effect can be explained by an increased activity of the microflora within the range of root systems. It is a well-known fact that molybdenum stimulates the development of azotobacter in the soil (Refs 4-8). Thus the amount of assimilable nitrogen is increased. In the experiments carried out by the authors azotobacter had a favorable influence upon other physiological groups of soil microorganisms (Table 3). It was furthermore proved that as a result of the intensified development of azotobacter in the "rhizosphere" of maize the leaf of the latter grew considerably bigger. Thus the

Card 2/3

The Effect of Molybdenum Upon the Supply of Mineral SOV/20-124-1-66/69 Nutrition Elements to the Plants and Upon the Development of Microflora Under Conditions of Peat Bog Soils

amount of carbohydrates formed by photosynthesis is increased and therefore also the crop (Table 4). Microorganisms were determined by F. P. Vavulo and Z. I. Konashevich. There are 4 tables and 18 references, 16 of which are Soviet.

ASSOCIATION: Institut biologii Akademii nauk BSSR (Înstitute of Biology,

Academy of Sciences, Belorasetana SSR)

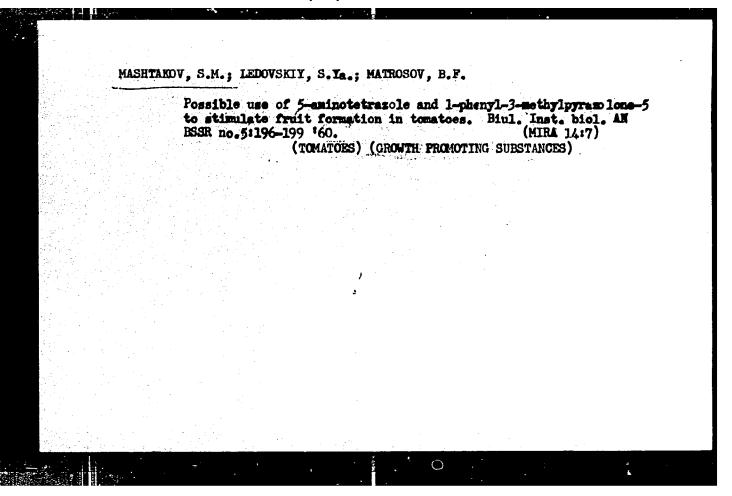
PRESENTED: September 2, 1958, by A. L. Kursanov, Academician

SUBMITTED: September 1, 1958

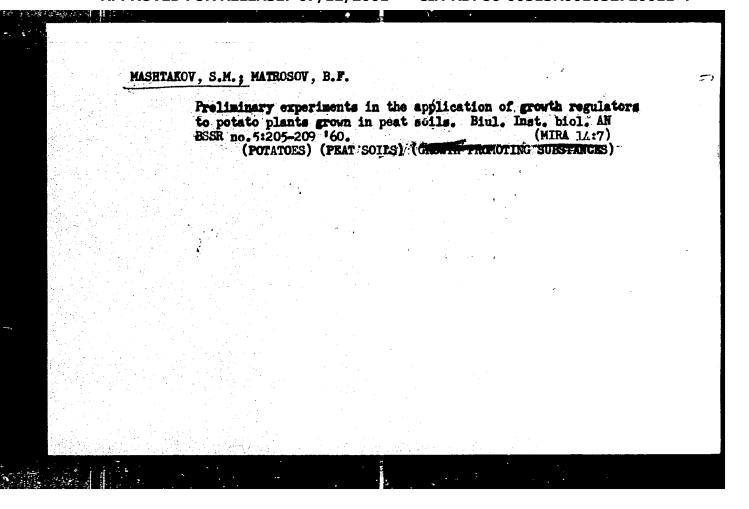
Card 3/3

 MASHTAKOV, Sergey Mikhaylovich; ZAYTSEVA, T., red.izd-ve; SIDERKO, N., tekhn.red.

[Herbocides in weed control] Gerbitsidy v bor'be s sornoi rastitel'nost'iu. Minsk, Isd-vo Akad.nauk BSSR, 1960. 131 p.
(MIRA 13:12)
(Herbicides)



	Use of the herbici conditions. Biul.	B.F.; LEDOVSKIY, S.Y. de "dicotex-30" in fl Inst. biol. AN BSSR	no.5:200-204 '60. (MIRA 14:7)	. :
	(FLAX)	(WEED CONTROL)	(ACETIC ACID)	



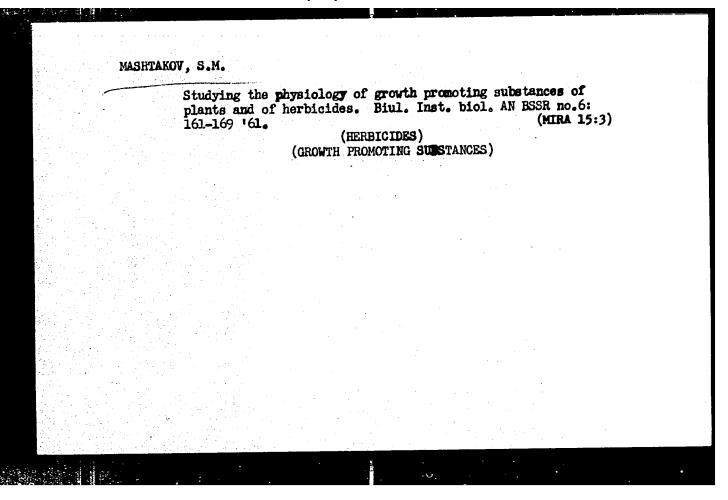
YURKEVICH, I.D., red.; MASHTAKOV, Sergey Mikhaylovich

[Using herbicides and substances promoting plant growth]

Primenenie gerbitsidov i stimuliatorov rosta rastemii.

Minsk, Izd-vo Akad.nauk BSSR, 1961. 310 p. (MIRA 16:1)

(Herbicides) (Growth promoting substances)



Scientific conference on the use of herbicides and plant growth stimulators in agriculture. Fiziol.rast. 8 no.5:646-648 '61. (Herbicides—Congresses) (Growth promoting substances—Congresses)

MASHTAKOV, S.M. [Mashtakou, S.M.]; PAROMCHIK, I.I. [Paromchyk, I.I.];

TALANOVA, K.S.

Effect of sodium salts of 2,4-D and 2M-4X on the photosynthesis and respiration of corn hybrids and varieties. Vestsi AN ESSR.Ser.bital. nav. no:2:43-49 '62. (MIRA 15:8)

(HERBICIDES) (PHOTOSYNTHESIS) (PLANTS—RESPIRATION)

VOLYNETS, A.P. [Valynets, A.P.]; MASHTAKOV, S.M. [Machtakou, S.M.]

Morphological changes in the varieties of fiber flax treated with growth regulating herbicides. Vestsi AN BSSR. Ser, biial. nav. no.4:33-39 *62. (MIRA 17:8)

MASHTAKOV, S.M.; PAROMCHIK, I.I.

Diurnal photosynthesis cycle in plants resistant to regulator herbicides. Dokl. AN BSSR 6 no.12:801-804 D '62. (MIRA 16:9)

1. Institut biologii AN BSSR. Predstavleno akademikom AN BSSR I.D. Yurkevichem.

MASHTAKOV, S.M.; GURINOVICH, Ye.S.; ZIMENKO, T.G.; KABAYLOVA, I.V.

Action of herbicides on soil microflora. Mikrobiologiia 31 no.1:85-89 Ja-F '62. (MIRA 15:3)

1. Institut biologii AN BSSR. (HERBICIDES) (SOIIS—MICROBIOLOGY)

MASHTAKOV, S.M.; VOLYNETS, A.P.

Interaction of gibberellic acid and the derivatives of phenoxyacetic acid in flax plants. Dokl. AN BSSR 7 no.4: 266-269 Ap 163. (MIRA 16:11)

1. Institut biologii AN BSSR. Predstavleno akademikom AN BSSR T.N. Godnevym.

MASHTAKOV, S.M.: PROKHORCHIK, R.A.

Study of triazine derivatives as growth regulators in plants. Report No.IV: Effect of simazine and atrazine on the change in intensity of the photosynthesis and respiration of plants. Dokl. AN BSSR 7 no.6:418-421 Je *63. (MIRA 16:10)

1. Institut biologii AN BSSR. Predstavleno akademikom AN BSSR I.D. Yurkevichem.

MASHTAKOV, S.M.; PROKHORCHIK, R.A.

Study of triazine derivatives as regulators of plant growth. V. Change in the photochemical activity of chloroplasts under the influence of simazine and atrazine. Dokl. AN BSSR 7 no.8:557-560 Ag *63. (MIRA 16:10)

1. Institut biologii AN BSSR. Predstavleno akademikom AN BSSR I.E. Yurkevichem.

MASHTAKOV, S.M.; PROKHORCHIK, R.A.

Stimulation of photosynthesis and the Hill reaction in the leaves of corn grown from seeds treated with simazine and atrazine. Dokl. AN BSSR 7 no.10:700-703 0 163.

(MIRA 16:11)

1. Institut biologii AN BSSR. Predstavleno akademikom AN BSSR I.D. Yurkevichem.

MASHTAKOV, S.M.; VOLYNETS, A.P.

Interaction of gibberellic acid and the derivatives of phenoxyacetic acid in fiber plants. Dokl. AN SSSR 150 no.1:191-194 My '63. (MIRA 16:6)

1. Institut biologii AN Belorusskoy SSR. Predstavleno akademikom A.L.Kursanovym.

(Flax) (Gibberellic acid) (Plants, Effect of acids on) (Acetic acid)

BULANOV, P.A., red.; VECHER, A.S., red.; GODNEV, T.N., red.; GONCHARIK, N.M., red.; LYAKHNOVICH, Ya.P., red.; MASHTAKOV, S.M., red.; MIRONENKO, A.V., red.; TERENT YEV, V.M., red.

[Fhysiological characteristics of cultivated plants] Fiziologicheskie osobennosti kul'tiviruemykh rastenii. Minsk, Isd-vo "Nauka i tekhnika," 1964. 130 p. (MIRA 17:6)

1. Akademiya navuk BSSR, Minsk. Institut eksperimental'noy botaniki i mikrobiologii.

MASHTAKOV, S.M. [Mashtakou, S.M.]; PROKHORCHIK, R.A. [Prokharchyk, R.A.]

Physiological reactions of plants to simazine and atrazine.

Vestsi AN RSSR Ser. biial. nav. no.3:46-53 '64 (MIRA 18:1)

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ACCESSION NR: AP5017365

tirchloroacetic acid. The investigated grasses could be arranged in the following series with respect to increasing resistance: wheat, rye, barley are into millet. The comparative phytosuxingty of these archicides and depending on the species of plant is the case of turn and oats. In the entitled higher herbicidal activity than transfernacetic acid where in the case of wheat, both preparations manifested the same activity than dalapon, for y art. has 4 figures and 3 tables.

MASHTAKOV, S.M.; DENISOVA, A.Z.; PARADOVSKAYA, Z.I.; PARSHAKOVA, Z.P.

Effect of the sodium salt of 2-methyl-4-chlorophenoxyacetic acid on the nucleic acid content of corn plants. Dokl. AN BSSR 8 no.10: 677-679 0 164. (MIRA 18:3)

1. Institut eksperimental noy botaniki i mikrobiologii AN BSSR.

VOLYNETS, Aleksandr Potapovich; MASHTAKOV, Sergey Mikhaylovich; POZDNYAKOVA, A., red.

[Effect of 2M-4KH and 2, 4-D herbicides on fiber flax varieties] Deistvie gerbitsidov 2M-4KH i 2,4-D na sorta L'na-dolguntsa. Minsk, Nauka i tekhnika, 1965. 70 p. (MIRA 18:12)

MIRONENKO, Aleksey Viktorovich; MASHTAKOV, S M., doktor biol.
nauk, prof., red.

[Physiology and biochemistry of lupine] Fiziologiia i
biokhimiia liupina. Minsk, Nauka i tekhnika, 1965.
201 p. (MIRA 18:5)

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720011-4

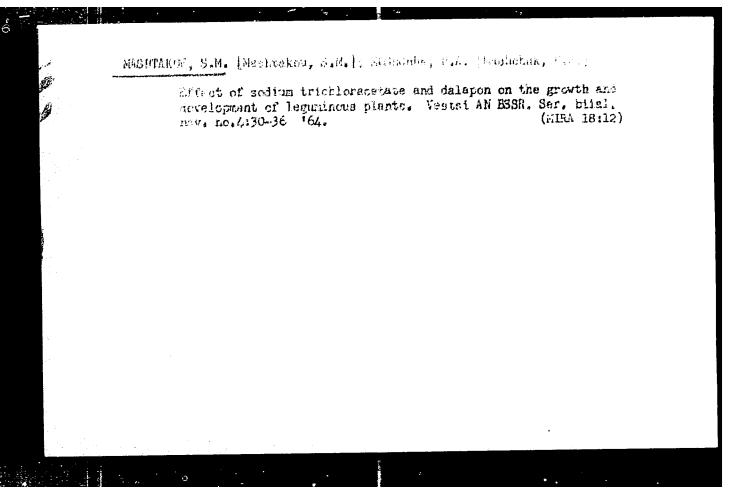
PARSHAKOVA, Z.S. Mightakov, S.M. [Mashtakou, S.M.]

Effect of herbicide 2M-4X on the free alanine content in corn plant. Vestsi AN ESSR. Ser. biial. nav. no.1:59-64 '65. (MIRA 18:5)

MASHTAKOW, S.M. [Mashtakou, S.M.]; MOSHCHUK, P.A. [Mashchuk, P.A.]

Reaction of pea and lupine varieties to the treatment with herbicides at various periods of vegetation. Vestsi AN BSSR. Ser. biial. nav. no.2:48-55 '65. (MIRA 18:12)

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720011-4



2027-66 EWT(1)/EWT(m)/EWA(b)-2 ACC NR. AP5024150 UR/0250/65/009/009/0610/0613 AUTHOR: Deyeva, V. P.; Mashtakov, S. M. H. TITLE: Adenosine triphosphate, nucleic acids and protein level changes in plants under the effect of 2,4-D and some trace elements SOURCE: AN BSSR. Doklady, v. 9, no. 9, 1965, 610-612 TOPIC TAGS: plant chemistry, plant metabolism, plant sensibility, boron, zinc, nucleic acid, protein, herbicide ABSTRACT: The article reports a study of these processes under the effect of the herbicide 2,4-D, alone or mixed with traces of boron and zinc, conducted on two hybrid varieties of corn, one resistant and the other sensitive to 2,4-D. Changes in levels of the three substances were determined in sections of the root ends and the whole third leaf in the initial developmental stage. At that time, the plant was left to soak for 24 hrs in a 2.4-D solution with or without either or both of the trace elements. Under the effect of the herbicide, ATP synthesis declined by 20% in the resistant variety and by 46% in the sensitive variety. Similar ATP decrease also appeared in the leaves. The trace elements, particularly zinc, considerably impeded this reduction so that ATP levels in the resistant variety approximated that of controls. nucleic acid level increased in both roots and leaves, since its

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NR REF SOV: 1 006	ENGP: 00	SUB CODE: LS
	OTHER: 008	

ACC NR: AP6033159

SOURCE CODE: UR/0250/66/010/009/0691/0694

::

AUTHOR: Mashtakov, S. M.; Paromchik, I. I.

ORG: Institute of Experimental Botany, AN BSSR (Institut eksperimental noy botaniki AN BSSR)

TITLE: Changes in photosynthesis and Hill's reaction in various varieties of corn treated with 2,4-D or 2M-4X

SOURCE: AN BSSR. Doklady, v. 10, no. 9, 1966, 691-694

TOPIC TAGS: herbicide, photosynthesis, photosynthesis inhibition, chloroplast, chloreplast photochemical activity, Hill's reaction, defoliant

ABSTRACT: Experiments were conducted with close varieties of the same plant species, namely, corn interline hybrids VIR 117 (resistant to herbicides) and VIR 42 (sensitive), and selfpollinated lines VIR 38 (resistant) and VIR 44 (sensitive). The effect of sodium salts of 2,4-D and 2M-4X used in 0.01 or 0.1% solutions on the intensity of photosynthesis, Hill's reaction in live leaves and the photochemical activity of separated chloroplasts was studied. The latter was determined either directly in vitro, or in vivo, by first treating the live plants with the herbicides and subsequently separating the treated chloroplasts. It was found that

Card 1/2

APPROVED FOR RELEASE: 07/12/2001

07/12/2001 CIA-RDP86-00513R001032720011-4"

ACC NR: AP6033159

the 0.01% solution of 2M-4% stimulated Hill's reaction both in herbicide resistant and sensitive varieties, while 2,4-D in this concentration stimulated VIR 38 and VIR 44; VIR 117 and VIR 42 were not affected significantly. The high concentration of both herbicides inhibited the photochemical activity of chloroplasts of both kinds of plants. Experiments with chloroplasts treated in vivo indicated that different varieties display different response to the herbicides used.

The study indicated that herbicides 2,4-D and 2M-4X do affect the intensity of photosynthesis in leaves and the photochemical activity of chloroplasts; these processes in close varieties of the same plant species depend on the type of herbicide and the sensitivity of the given variety.

[WA-50; CBE No. 12]

SUB CODE:

06, 04/ SUBH DATE: 19Feb65/ ORIG REF: 002/ OTH REF: 013/

Card 2/2

 ACC NR. AP6034187

SOURCE CODE: UR/0250/66/010/010/0792/0795

AUTHOR: Hashtakov, S. H.; Paromchik, I. I.

ORG: Institute of Experimental Botany, AN BSSR (Institut eksperimental noy botaniki, AN BSSR)

TITLE: Changes in the stability of the chlorophyll-protein-lipid complex in plants treated with sodium salts of chlorophenoxyacetic acids

SOURCE: AN BSSR. Doklady, v. 10, no. 10, 1966, 792-795

TOPIC TAGS: herbicide, photosynthesis, photosynthetic apparatus, herbicide resistance, Chlorophyll

ABSTRACT: In a continuation of their study on the comparative effect of 2,4-D or 2M-4K herbicides on herbicide resistant and sensitive plant varieties, the authors attempted to find the effect of the above herbicides on the stability of the chlorophyll-protein-lipid complex in vivo The following plants were selected, each in two varieties, for the experiment: corm - double interline hybrids VIR 117 (resistant) and VIR 42 (sensitive); and long-fibered flax 1258/12 (resistant) and L-112 (sensitive). The young plants (about 6 leaves) were treated with solutions of sodium salts of 2,4-D or 2M-4K; corn by the introduction of 9.5 kg herbicide per ha, and flax by spraying the plants with 0.042

Cord 1/2

ACC NR. AP6034187

solutions (1.5 kg per ha). The samples were taken 24, 72, and 168 hr after treatment. The stability of the complex was determined by resistance of the latter to the extraction from desintegrated leaves with petroleum ether; in addition, the photosynthetic activity of chloroplasts and intensity of photosynthesis were determined. The results indicated that the stability of the chlorophyll-protein-lipid complex decreases after the treatment with herbicides, especially in herbicide sensitive plants. This can be explained by a transition of the aggregate chlorophyll into its monomer form, more readily soluble in petroleum ether, which means that some qualitative changes take place in the photosyntheic apparatus of the treated plants. The changes in photochemical activity depend on the toxicity of herbicide and the resistance of the given plant variety. The general conclusion drawn from the study is that the photosynthetic apparatus in the herbicide sensitive plants is unstable and is easily damaged by the regulatory herbicides. [W.A. 50] Orig. art. has: 2 figures.

SUB CODE: OC/ SUBH DATE: 28Her66/; ORIG REF: 012/ OTH REF: 006

Card 2/2

ACC NR: AP6033159

SOURCE CODE: UR/0250/66/010/009/0691/0694

AUTHOR: Mashtakov S. K.; Paromchik, I. I.

ORG: Institute of Experimental Botany, AN BSSR (Institut eksperimental'noy botaniki AN BSSR)

TITLE: Changes in photosynthesis and Hill's reaction in various varieties of corn treated with 2,4-D or 2M-4X

SOURCE: AN BSSR. Doklady, v. 10, no. 9, 1966, 691-694

TOPIC TAGS: herbicide, photosynthesis, photosynthesis inhibition, chloroplast, chloroplast photochemical activity, Hill's reaction, defoliant

ABSTRACT: Experiments were conducted with close varieties of the same plant species, namely, corn interline hybrids VIR 117 (resistant to herbicides) and VIR 42 (sensitive), and selfpollinated lines VIR 38 (resistant) and VIR 44 (sensitive). The effect of sodium salts of 2,4-D and 2M-4X used in 0.01 or 0.1% solutions on the intensity of photosynthesis, Hill's reaction in live leaves and the photochemical activity of separated chloroplasts was studied. The latter was determined either directly in vitro, or in vivo, by first treating the live plants with the herbicides and subsequently separating the treated chloroplasts. It was found that

Card 1/2

ACC NR. AP6033159

• 3

the 0.01% solution of 2M-4% stimulated Hill's reaction both in herbicide resistant and sensitive varieties, while 2,4-D in this concentration stimulated VIR 38 and VIR 44; VIR 117 and VIR 42 were not affected significantly. The high concentration of both herbicides inhibited the photochemical activity of chloroplasts of both kinds of plants. Experiments with chloroplasts treated in vivo indicated that different varieties display different response to the herbicides used.

The study indicated that herbicides 2,4-D and 2H-4X do affect the intensity of photosynthesis in leaves and the photochemical activity of chloroplasts; these processes in close varieties of the same plant species depend on the type of herbicide and the sensitivity of the given variety.

[WA-50; CBE No. 12]

SUB CODE:

06, 04/ SUBH DATE: 19Feb65/ ORIG REF: 002/ OTH REF: 013/

Card 2/2

UR/0250/66/010/010/0792/0795 SOURCE CODE: ACC NR. AP6034187 AUTHOR: Mashtakov, S. M.; Paromchik, I. I. ORG: Institute of Experimental Botany, AN BSSR (Institut eksperimental'noy botaniki, AN BSSR) TITLE: Changes in the stability of the chlorophyll-protein-lipid complex in plants treated with sodium salts of chlorophenoxyacetic acids SOURCE: AN BSSR. Doklady, v. 10, no. 10, 1966, 792-795 photosynthesis, photosynthetic apparatus, TOPIC TAGS: herbicide, herbicide resistance, chlorophyll ABSTRACT: In a continuation of their study on the comparative effect of 2,4-D or 2M-4K herbicides on herbicide resistant and sensitive plant varieties, the authors attempted to find the effect of the above herbicides on the stability of the chlorophyll-protein-lipid complex in vivo The following plants were selected, each in two varieties, for the experiment: corn - double interline hybrids VIR 117 (resistant) and VIR 42 (sensitive); and long-fibered flax 1288/12 (resistant) and L-1120 (sensitive). The young plants (about 6 leaves) were treated with solutions of sodium salts of 2,4-D or 2M-4K; corn by the introduction of 9.5 kg herbicide per ha, and flax by spraying the plants with 0.04%

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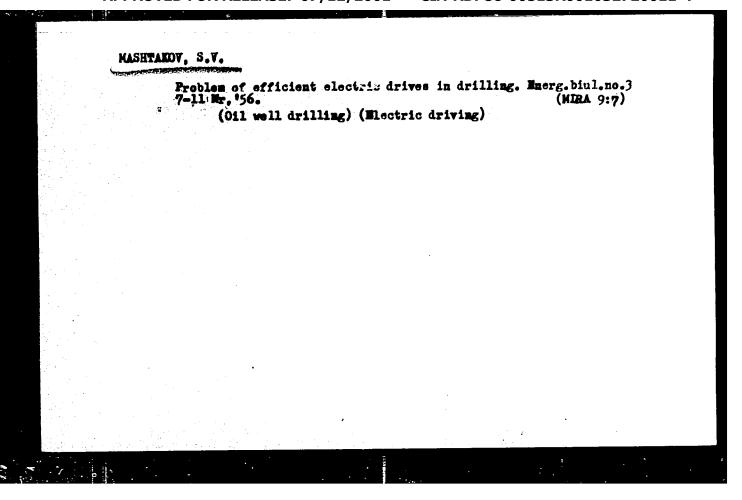
ACC NR. AP6034187

solutions (1.5 kg per ha). The samples were taken 24, 72, and 168 hr after treatment. The stability of the complex was determined by resistance of the latter to the extraction from desintegrated leaves with petroleum ether; in addition, the photosynthetic activity of chloroplasts and intensity of photosynthesis were determined. The results indicated that the stability of the chlorophyll-protein-lipid complex decreases after the treatment with herbicides, especially in herbicide sensitive plants. This can be explained by a transition of the aggregate chlorophyll into its monomer form, more readily soluble in petroleum ether, which means that some qualitative changes take place in the photosyntheic apparatus of the treated plants. The changes in photochemical activity depend on the toxicity of herbicide and the resistance of the given plant variety. The general conclusion drawn from the study is that the photosynthetic apparatus in the herbicide sensitive plants is unstable and is easily damaged by the regulatory herbicides.

Orig. art. has: 2 figures.

SUB CODE: OG/ SUBH DATE: 28Mar66/, ORIG REF: 012/ OTH REF: 006

Cord 2 / 2



15-57-3-3918D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,

p 201 (USSR)

AUTHOR:

Mashtakov, V. P.

TITLE:

A Study of the Use of Continuous Guards in the Prokop'yevskiy Mines of the Kuzbass (Kuznetsk Basin) Region and
Means of Improving Them (Analiz primeneniya bessektsionnykh shchitov na shakhtakh Prokop'yevskogo rayona Kuz-

bassa i puti ikh dal'neyshego uluchsheniya)

ABSTRACT:

Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Tomskiy politekhn, in-t (Tomsk Polytechic Institute),

Tomsk, 1956.

ASSOCIATION: Tomskiy politekhn. in-t (Tomsk Polytechnic Institute)

Card 1/1

MASHTAKOV, V.S.

PHASE I BOOK EXPLOITATION

SOV/4118

Khimicheskaya zashchita organizma ot ioniziruyushchikh izlucheniy (Chemical Protection of the Organism From Ionizing Radiation) Moscow, Atomizdat, 1960. 151 p. Errata slip inserted. 6,000 copies printed.

Ed. (Title page): V.S. Balabukh, Professor; Ed. (Inside book): A.I. Zavodchikova; Tech. Ed.: N.A. Vlasova.

PURPOSE: This book is intended for chemists doing research on means of chemical protection and on complexing agents, and for biologists and other specialists working on problems in radiobiology.

COVERAGE: This collection of articles reviews the present state of the problem of chemical protection from ionization radiation and contains experimental data on the synthesis and biological testing of the protective properties of a number of chemical compounds (the aminothiols and pyrimidine derivatives). Results of experimental investigation on the elimination of radioactive isotopes from the organism are presented and the characteristics of the state of certain radioactive isotopes in the blood and in bone tissue are noted.

Card 1/5

Chemical Protection of the Organism (Cont.)

sov/4118

Attention is given to explaining the action mechanism of protective substances. The articles discuss in the light of certain radiobiological and biophysical hypotheses possible ways of protecting the biosubstructure from the injurious effects of ionizing radiation. The effectiveness of complexing agents which induce radioactive isotopes to combine and be eliminated from the organism is evaluated on the basis of physicochemical data and biological experiments. No personalities are mentioned. Soviet and non-Soviet sources follow each article.

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ACC NR: AP6003819 SOURCE CODE: UR/0181/66/008/001/0286/0287 4/5

AUTHOR: Nolle, E. L.; Vavilov, V. S.; Golubev, G. P.; Mashtakov, V. S.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskly Institut AN SSSR)

TITLE: Induced radiation of cadmium selenide due to electron excitation

SOURCE: Fizika tverdogo tela, v. 8, ko. 1, 2966, 286-287

TOPIC TAGS: light radiation, radiation intensity, light emission, light excitation

ABSTRACT: An attempt was made to obtain stimulated emission of light from calcium selenide excited with electron pulses. A specimen having the form of a rectangle parallelepiped 600 x 400 x 50 µ was used for observation of the emission. The electron beam was incident on the largest surface of the specimen, while the emission was recorded from the specimen's side faces, the distance between which was 600 µ. The measurements were made at 80K. The observation of emission from the side faces showed that the maximum of the spectral band is shifted by 35 Å to the longwave side as compared with emission recorded from the forward face irradiated with electrons. When current density was increased from 1 amp/cm², a sharp increase in emission intensity was observed along with the simultaneous appearance of the directional effect of emission and a decrease of the width at the half-height of the band from 80 to 15 Å. At a current density of 2.5 amp/cm², the emission spectrum has an equidistant struc-

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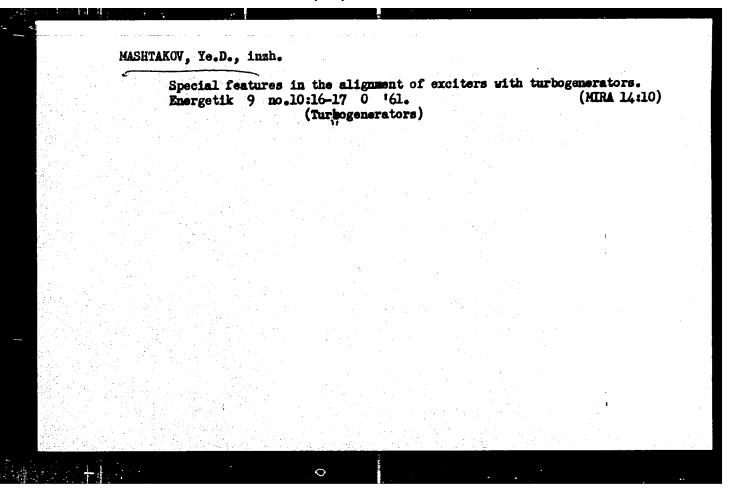
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EWT(1)/T IJP(c)=-ATL 40050-66 SOURCE CODE: UR/0120/66/000/003/0176/0179 ACC NR: AP6022024 AUTHOR: Vavilov, V. S.; Nolle, E. L.; Yegorov, V. D.; Golubev, G. P.; Mashtakov, V. S. ORG: Institute of Physics, AN SSSR, Moscow (Fizicheskiy institut AN SSSR) TITLE: Outfit for studying the recombination radiation of electron-excited semiconductors 2 SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 176-179 TOPIC TAGS: semiconductor research, recombination radiation ABSTRACT: Connected with the outfits described by C. Benoit et al. (Physics of Semiconductors, Paris, Dunod, 1964), an improved outfit developed by the authors is capable of exciting semiconductors by 150-kev electron pulses that have a current density of 3 amp/cm2; pulse duration, 0.25--10 ("sec; repetition rate, up to 30 cps. Stimulated radiation of cadmium telluride was achieved in this outfit for the first time. An electron tube with a constant high voltage and a pulsed grid modulation is used for high-power electron excitation of semiconductors; a 20-section steatite tube has been actually used. A block diagram of the outfit, principal circuits of the pulse generator and synchronous detector, and the pulse shape of the electron beam are shown. A He cryostat permits studying the recombination radiation of semiconductors at temperatures down to 10K. "The authors wish to thank S. I. Vintovkin, V. S. Ivanov, and B. D. Kopylovskiy for their valuable advice connected with the development of the outfit." Orig. art. has: 4 figures. SUB CODE: 20, 09 / SUBM DATE: 25Nay65 / ORIG REF: 004 / OTH REF: 002 UDC: 539.293

TYURYAYEV, 1. Ys. TSAYLANGELID, A. L.; MASHTANOV, V,V,; KOLOBIKHIN, V.A.

Obtaining nutadiene-1,3 by the exidation dehydrogenation of butene in the fluidized bed. Neftekhimiia 4 no.2:190-193 Mr-#p*64 (MIRA 17:8)

1. Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskego kauchuka, Yaruslavi'.



NIKIFOROVA, N.A., starshiy nauchnyy sotrudnik; MASHTAKOVA, A.Kh., mladshiy nauchnyy sotrudnik

Powdery mildew of cucumbers in greenhouses. Zashch. rast. ot vred. i bol. 6 no.12:30-31 D '61. (MIRA 16:5)

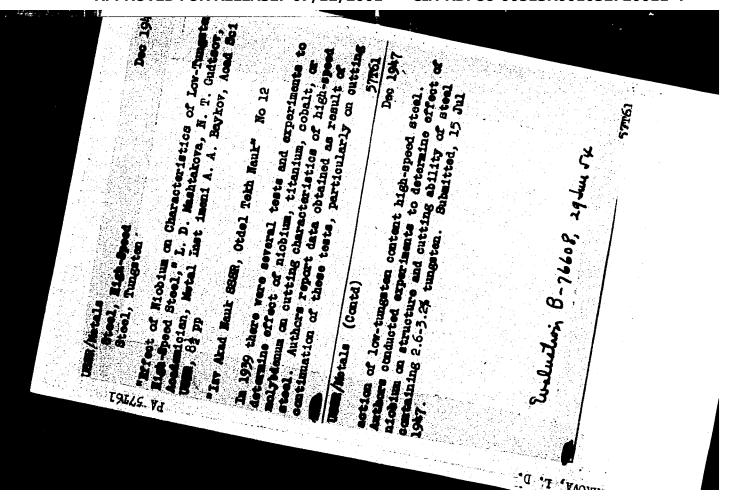
1. Moldavskiy institut oroshayemogo zemledeliya i ovoshchevodstva, Tiraspol'.

MASHTAKOVA, G.P.

1. Azovo-Chernomorskiy nauchno-issledovatel*skiy institut rybnogo khozymystva i okeanografii, Kerch*.

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HASTIAKOVA, L. D. USSR/Miscellaneous - High-grade steel 2 Pub. 124 - 5/35 Card 1/1 : Gudtsov, N. T., Academician.; and Mashtakova, L. D. Authors : High-grade structural steel Title Periodical : Vest. AN SSSR 7, 38-40, July 1954 t The production of a new high-grade but low-priced structural steel Abstract at the A. A. Baykov Metallurgical Institute of the Acad. of Sc. USSR, is described. The mechanical and physical properties of the new type structural steel, are outlined. The new steel perfectly satisfies the technical and economical requirements of the construction industry. The experimental process in developing this steel is analyzed. Institution : Submitted

SOV/137-57-1-1390

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 184 (USSR)

AUTHORS: Gudtsov, N., Mashtakova, L.

TITLE: Low-alloy High-strength Steel (Nizkolegirovannaya stal' povyshennoy

prochnosti)

PERIODICAL: Oktyabr', 1956, Nr 6, pp 143-145

ABSTRACT: An article intended for the general public. The authors examine

some general principles of alloying steel with a group of small (total not over 3%) additions of various elements, the chemical, physical, mechanical, and working properties of low-alloy structural steel, requirements exacted by the builders, and the

prospects of utilization of low-alloy, high-strength steel in the national economy.

A. M.

Card 1/1

MASHTAKOVA, L.D.

AUTHOR:

GUDZOV,N.T., MASHTAKOVA,L.D.

PA - 2493
Titanium, its Alloys and the Ranges of its Application. (Titan,

yego splavy i sfery primyenyeniya, Russian)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 2, pp 59-68 (U.S.S.R.)
Reviewed: 6 / 1957

Received: 5 / 1957

ABSTRACT:

This paper deals with the general properties of pure titanium, various methods of its production, advantages compared to other metals, and various possibilities for its application. Different types of titanium alloys and their properties are enumerated. The properties of titanium alloys are shown in form of a table. The paper further discusses methods of hardening that are applicable in the case of titanium and its alloys; the influence exercised by the atmosphere on its alloys in the course of a production process, as well as when used for motor and aircraft components (aircraft with supersonic velocity) etc; further subjects discussed are its age limit; various possibilities for the application of titanium and its alloys, above all as coverings for aircraft, rotors of jet planes, brakes, various weapons, anti-aircraft guns, ammunition cases, shipbuilding, etc; application of titanium coatings by means of electrolysis on to steel plates, and possibilities for the use of this bimetal, for electric lines of steel wire coated with titanium, with a copper or aluminum protective coating etc; use of

Card 1/2

PA - 2493

Titanium, its Alloys and the Ranges of its Application.

titanium cathodes in galvanoplastics; superhard alloys of titanium and tungsten for tools. There are large titanium deposits in the U.S.S.R., particularly in the Ural district in form of ilmenite (FeTiO₂). The authors recommend that an inexpensive and simple technology of producing titanium be worked out as soon as possible by Russian scientists in order to be able "to utilize the vast deposits of titanium in the U.S.S.R. as soon and as effectively as possible."

ASSOCIATION:

Not given

PRESENTED BY:

SUBMITTED:

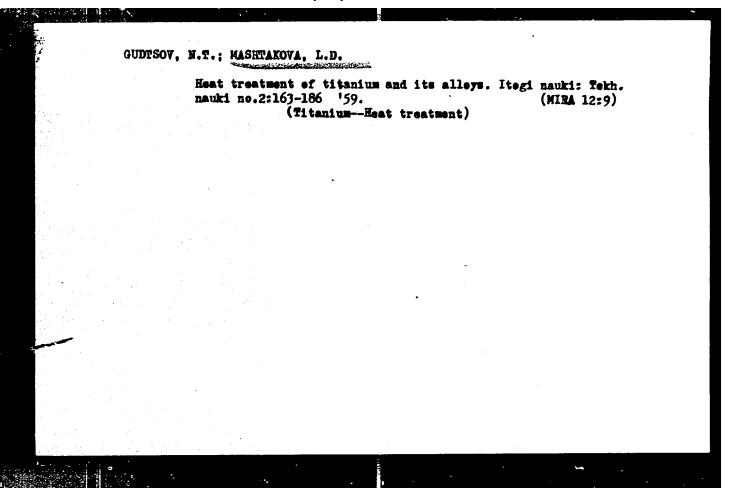
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						N 2	(fitta page): I. P. Bardis, Academician; Ed. (Inside book): Frem. Ed.: P. G. Islant'yeva.	This book is intended for setallurgists.	FRAME: The articles in this collection present historical data on the seatlowness of objects such control of the control of the period (307-197). Advances in theory and practical supplication are thereography discussed. Many of the articles describe the present states of statistical branches of sextlangs in five as idea of whit may be discussed, the articles are also described to the force, Advances and in other countries are also discussed. The articles are accordantly by large major of references.	Parlow, Ir. W., Corresponding Number, 1838 Acadery of Sciences, Professor, Berker of Frences, Sciences, (Institute of Metallury issue A., Baykov, BER Academy of Sciences) Scientific Study of the Bolling Process	Mis serials is an extensive survey of estentific writings on the reliting process published in various countries including the USSR sizes 1859. For writing deal with historical development, friction between rolls and serial, force and power relations, deformation, high speed reliting, and appets arthods of rolling.	Bardia, I. P., Academicius, sod L. L. Pinkmasovich, Cacidate of Technical Sciences. (Institute of Metallurg isem A. A. Baytov, USSE Acadamy of Sciences) The Sail Problem	Restorted information on the development of engineering standards for the ecceptance of retla and on the anomat of rails menufactured by equalsarith, bessens, and Thomas processes is presented. Changes in weight and types of rails, improvements in quality and technique (e.g., quantitud from rolling temperature and after reheating, use of alloy steel, etc.) are pointed out. Measures taken for further improve- ment and alianisation of defects are sentioned.	:	•			
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POGORELOVA, T.I.; GRACHEVA, A.L.; MASHTAKOVA, P.A.; TIMOSHENKO, A.P.; YAKOVLEVA, G.A.; SHUBAYEVA, S.M.; SERGEYEV, Ye.V.; LACHUGINA, V.A.; KOMSOMOL'TSEVA, L.I., red.; TOCHENYY, N.S., red.; GIL'DEBRANT, Ye., tekhn. red.

[Moonomy of Krasnoyarsk Territory; a statistical manual] Marodnoe khoziaistvo Krasnoiarskogo kraia; statisticheskii sbornik.
Krasnoiarsk, 1958. 332 p. (MIRA 11:10)

1. Krasnoyarsk (Kray). Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Krasnoyarskogo kraya (for Tochenyy). (Krasnoyarsk Territory--Statistics)

EVLIYA, Chelebi [Evliya, Efendi]; ZHELTYAKOV, A.D.; TVERTINOVA, A.S. [translator]; VEKILOV, A.P. [translator]; GARBUZOVA, V.S. [translator]; CRICOR'YEV, A.P. [translator]; ZYRIN, A.A. [translator]; IVANOVA, R.D. [translator]; IVANOV, S.N.[translator] Prinimali uchastiye: KYAMILEV, Kh. [translator]; MASHTAKOVA, Ye.I. [translator]; GRUNINA, E.A., red. izd-va; KUZ'MIN, I.F., tekhn. red.

[A travel book (excerpts from the work of a 17th century Turkish traveler); translation and commentary] Kniga puteshestviia (izvlecheniia iz sochineniia turetskogo puteshestvennika XVII veka); perevod i kommentarii. Moskva, Isd-vo vostochnoi lit-ry. (Pamiatniki literatury narodov Vostoka: Perevody, no.6) No.1. [Moldavia and the Ukraine] Zemli Moldavii i Ukrainy. 1961. 337 p. (MIRA 14:12)

1. Vostochnyy fakul'tet Leningradskogo Gosudarstvennogo universiteta (for all except Kyamilev, Mashtakova, Grunina, Kuz'min).

2. Institut narodov Azii AN SSSR (for Kyamilev, Mashtakova).

(Elviya, Efendi, ca. 1611- ca. 1682) (Moldavia-Description and travel) (Ukraine-Description and travel)

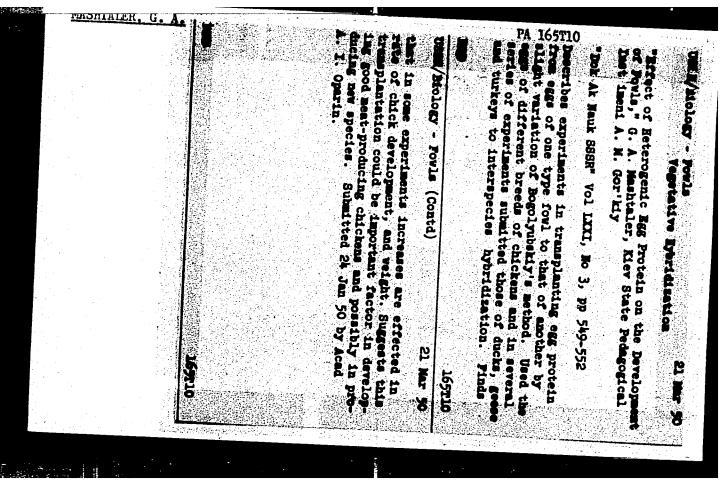
KHORUNZHEVA, L.D.; LYUDVIG, A.D.; MASHTAKOVA, Z.A.; TUMAILOVA, L.M.

Extermination of favus in the Bakharden, Geok-Tepinsk, and Ashkhabad Rural Districts. Zdrav. Turk. 5 no.6:28-29 N-D '61. (MIRA 15:2)

1. Is dispansernogo otdela (zay. - L.D.Khorunsheva) kozhnovenerologicheskogo instituta (nauchnyy rukovoditel' - prof. N.F. Rodyakin).

(TURKMENISTAN--FAVUS)

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USSR/Farm Animals - Domestic Fowls.

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Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30998

Author

: Mashtaler G.A.

Inst

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Title

: The "Cold" Raising of Young Fowls.

(Kholodnoye vyrashchivaniye molodnyaka ptits).

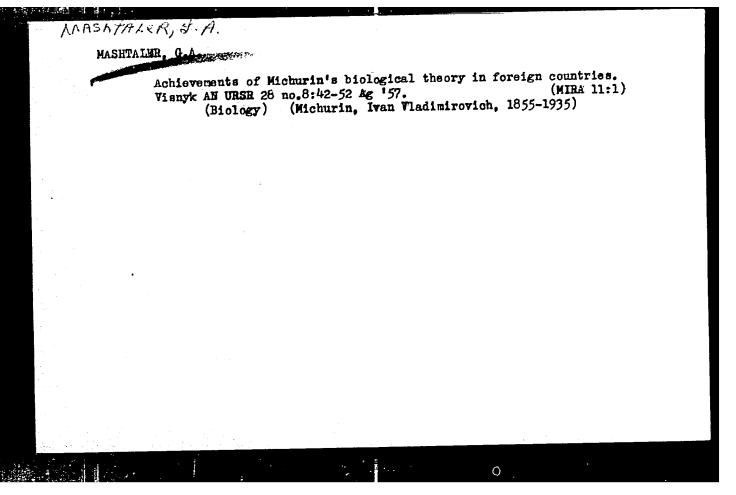
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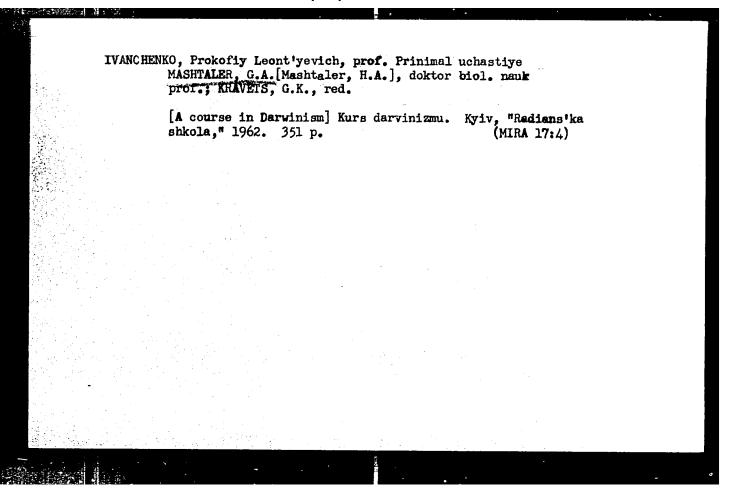
: Sots. tvarinnitstvo, 1957, No 4, 40-42.

Abstract

: No abstract.

Card 1/1





MASHTALER, M.P. (s. Synshereya)

Infecticus monomicleosis and its differential diagnosis from Botkin's disease. Zdravookhranenie 2 no.5:26-28 S-0 '59. (MIRA 13:4)

1. Is bol'nitsy Lasovskogo rayona (glavnyy vrach Yu. I. Erlikh).

Mauchnyy rukovoditel' - saveduyushchiy kafedroy infektsionnykh
bolezney Kiyevskogo gosudarstvennogo meditsinskogo instituta
I.R. Drobinskiy.

(MDNONUCLEOSIS) (HEPATITIS, IMPECTIOUS)

BRABETS, V. [Brabec, V.]; KRATSIK, B.; KRATSIKOVA, T.; MILIGI, Z.; VEYS, M.; MASHTALKA, A.; VOBETSKY, M.; GNATOVITSZ, V.

Radioactive radiation from neutron-deficient hafnium isotopes.

Izv.AN SSSR.Ser.fiz. 25 no.10:1266-1268 *61. (MIRA 14:10)

1. Institut yadernykh issledovaniy Chekhoslovatskoy Akademii nauk, Rzhesh, i Fakul'tet tekhnicheskoy i yadernoy fiziki ChVUT, Praga. (Hafnium-Isotopes)

S/048/62/026/012/006/016 B117/B186

AUTHORS:

Brabets, V., Kratsik, B., Kratsikova, T., Mashtalka, A., Veys, M., Vobetski, M., and Chernukh, I.

TITLE:

Conversion spectrum of Hf 172

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 12, 1962, 1486 - 1487

TEXT: The long-lived hafnium isotope ${\rm Hf}^{172}$ of ${\rm T}_{1/2}$ = 5 years was obtained in the synchrocyclotron of the OIYaI in Dubna by bombarding a tantulum target with protons for a month. The hafnium fraction was separated from the target using the method described by M. Vobecký and A. Mastalka (Collection Czechoslov. Chem. Commun., 26; 1716 (1961)). The conversion spectrum of the hafnium fraction was measured with a β -spectrometer having an intermediate image and a 2% resolution, 7 months after irradiation had been completed. By this time the short-lived isotope had decayed completely and the ${\rm Hf}^{175}$, of ${\rm T}_{1/2}$ = 70 days to a considerable extent. The source of radiation used for most of the experiments was an equilibrium mixture of Card 1/3

s/048/62/026/012/006/016 B117/B186

Conversion spectrum of Hf 172 Hf 172 and Lu 172 on aluminum foil. Measurements carried out in the range up to 1100 kev showed that Hf 172 has no conversion lines above 120 kev. In the range up to 120 key, 11 lines were found, corresponding to transitions with energies of 23.6, 42, 44.5, 81.1, 112.7, and 125.5 kev. The y-transition with an energy of 112.7 kev is already known from the decay of Lu. The increase in intensity of the conversion line corresponding to this transition took place more slowly than that of the other conversion lines of Lu 172. This leads to the conclusion that there exist conversion lines belonging to Hf 172 at this position in the spectrum, which also correspond to a transition having an energy of about 112.7 kev. As a result of the incomplete separation of the individual lines, the relative intensities of the conversion lines in question could only be determined approximately. For the same reason, it was impossible either to determine the multipole order of the y-transition unambiguously; or to propose a final decay scheme. This paper was read at the 12th Annual Conference on Nuclear Spectroscopy held in Leningrad from January 26 through February 2, 1962. There is

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1 table.

Conversion spectrum of Hf 172

S/048/62/026/012/006/016

B117/B186

ASSOCIATION: Institut yadernykh issledovaniy Chekhoslovatskoy akademii mauk,
Rshesh (Institute of Nuclear Research) of the Czechoslovak
Academy of Sciences, Rshesh); Fakul'tet tekhnicheskoy i
yadernoy fiziki ChVUT (Division of Technical and Muclear
Physics ChVUT)

Card 3/3

5 (2)

AUTHORS: Mashukov, A. Ya., Lazarev, M. M.,

SOV/32-25-8-13/44

Gofman, Yu. M., Anisimov, S. B.,

Intson, L. P., Turskiy, Yu. I., Mazov, A. V., Samolova, L. Ye.

TITLE:

News in Brief

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 934 - 935

(USSR)

ABSTRACT:

A. Ya. Mashukov reports that the Institute prepared test samples containing several rare elements. For the preparation they used a copper-zinc ore (0.000% In, 0.007% Tl, 0.0012% Ga, and 0.000% Ge) and not-calcined lead dust (0.004% In, 0.032% Tl, 0.0001% Ga, and 0.0009% Ge). The composition of the test samples was determined by three institutes. M. M. Lazarev (Laboratoriya zavoda) (Plant Laboratory) recommends a nephelometric method for the determination of zinc in the alloy MA-2 by a reaction with potassium ferrocyanide using a photocolorimeter FEK-M. Yu. M. Gofman describes a method for the non-cutting analysis of low alloy steels 15M, 12MKh, 12KhMF for the determination of the carbides of manganese, chromium, molybdenum, and vanadium. The analysis can be made without preparation of a sample by photocolorimetry directly on the surface of the workpiece in-

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News in Brief

SOV/32-25-8-13/44

westigated. S. B. Anisimov and L. P. Intson describe a rapid method for the determination of the relation tin: lead in coating at the test of electroplating baths. An electroplated coating is made on a weighed steel leaflet of 10Kh18N9T steel. The coating is detached and after separation of the Sn as metastamic acid, the lead is titrated with Trilon B. Yu. I. Turskiy, A. V. Mazov, L. Ye. Samolova developed a colorimetric in gas plants, which is based on the extraction of the resins with chloroform from the alkaline liquid (to form water-soluble on a colorimeter FEK-M.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel skiy gornometallurgicheskiy institut tsvetnoy metallurgii (All-Union Scientific Miningmetal-lurgical Research Institute of Non-ferrous Metals). Laboratoriya metallov Sverdlovenergo (Metal Laboratory of the Sverdlovenergo). Vsesoyuznyy nauchno-issledovatel skiy institut po pererabotke nefti i polucheniyu iskusstvennogo shidkogo topliva i gaza (All-Union Scientific Research Institute for the Processing of Petroleum and Production of Synthetic Liquid Fuels and Gases)

Card 2/2

SAYUN, M.G.; YURASOVA, G.M.; IVANOVA, R.G.; MASHUKOV, A.Ya.

Xylenol orange in the complexonometric determination of lead in lead concentrates. Zav.lab. 27 no.8:961-963 '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel*skiy gornometallurgicheskiy institut tsvetnykh metallov.

(Lead--Analysis)

PLOTNIKOVA, C.M.; LYSENRO, V.I.; MASHUKOV, A.Ya.

Using enion exchangers without the use of a tower in determining cadmium, lead, and zine in ferrous and cuprous materials. Shore trude VNIITSVATMET no.9% 127-131 155.

(MIRA 18:11)

TYAZHELOV, Vadim Innokent'yevich; SAVEL'YEV, A.G., retsensent; MAUMOV, M.K., retsensent; LI, N.V., retsensent; MASHUKOV, I.P., retsensent; MYAKOW'KIY. A.I., gornyy insh., retsensent; KULRYASHOV, V.A., dotsent, retsensent; PATRENKO, M.P., red.; SOROKIM, T.I. tekhn.red.

[Working a deposit by open-pit mining in the wintertime] Rasrabotka mestoroshdenii otkrytym sposobom v simnii period. Irkutak, Irkutakoe knishnoe isd-vo. 1958. 127 p.

(MIRA 14:5)

1. Gornorudnyy kombinat Irkutskogo sovnarkhoza (for Savel'yev, Maumov, Li, Mashukov, Myakon'kikh, Kudryashov)

(Strip mining--Cold weather conditions)

KOKURICHEV, P.I., prof.; MIKHAYLOV, N.P., veterinarnyy vrach; KARPOV, V.P.; MOSKALEVA, Ye.G., veterinarnyy tekhnik; VOLKOVA, A.S., veterinarnyy tekhnik; MASHUKOV, M.I.

Selenium preparations in the prophylaxis of diseases in lambs and young pigs. Veterinariia 41 no.8:65-67 Ag *64.

1. Leningradskiy veterinarnyy institut (for Kokurichev, Mikhaylov).
2. Glavnyy veterinarnyy vrach sovkhoza "Leninskiy Irkutskoy oblasti (for Moskaleva, Volkova). 4. Glavnyy zootekhnik sovkhoza "Leninskiy" Irkutskoy oblasti (for Mashukov).

